

# Correlation between solar power generation industry and GDP

How does GDP per capita affect solar PV power efficiency?

GDP per capita is used to measure the level of economic development of different countries; the level of economic growth determines the country's ability to invest in solar PV generation infrastructure development, which can affect solar PV power efficiency , , .

How does government policy affect solar PV power efficiency?

They also have relatively greater expectations of non-fossil-fuel energy generation, which will also increase the level of attention given to solar PV generation; furthermore, more government policies and researcher input will influence solar PV power efficiency , , .

Does technological innovation increase solar energy consumption?

Technological innovation and population are significantly positive to increasing solar energy consumption. The positive impact of technological innovation on solar energy can be verified by (Solarin et al. 2022). They argued that technologies promote renewable energy. The results of biomass energy are given in Table 7.

Are there studies on solar PV power efficiency at the national level?

(1) There are few studies on solar PV power efficiency at the national level. Although solar PV generation is widespread and can provide electricity to meet the energy needs of economic development, few analyses have been conducted to assess solar PV power efficiency.

What are the factors affecting solar PV production?

Solar PV installed capacity, the cumulative number of solar PV patents, gross capital formation (% of GDP), and labor were input variables, solar PV generation was the output variable, and the proportion of the urban population in the total population, GDP per capita, and carbon dioxide emissions were external environmental variables.

What are the economic dimensions of solar PV generation?

The economic dimensions considered in this paper refer to government provision of substantial support and subsidies for solar PV generation, which generally include solar PV generation planning policies, science and technology, research and development activities, capital costs, power costs, and market resource allocation.

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